

FIG. 1

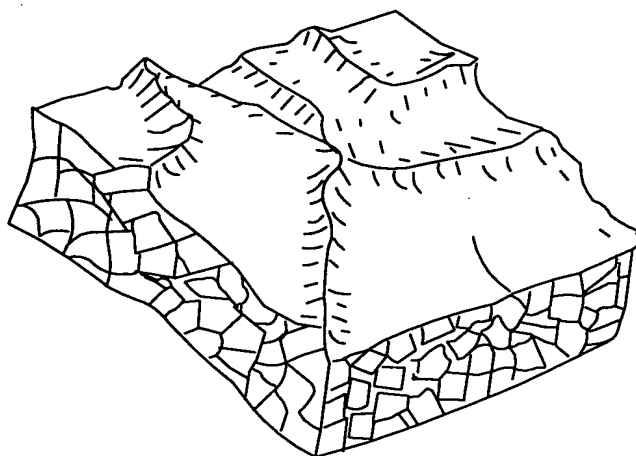


FIG. 2

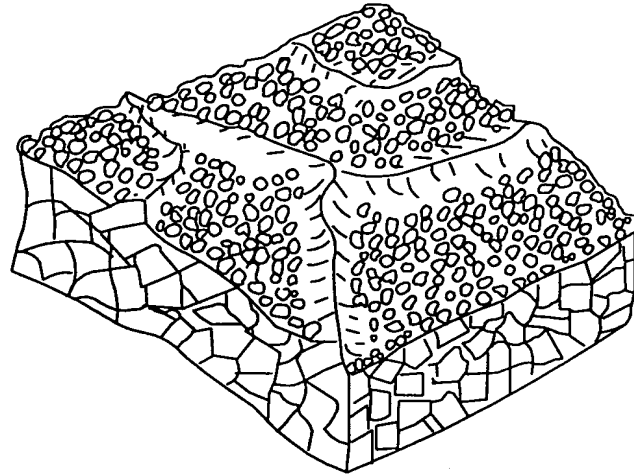


FIG. 3

ROUGHNESS Ra (μm)	1.2	1.8	2.3	2.7	3.6	4.4
THE AMOUNT OF CORROSION PRESENT*	○	○	○	○	△	×

* (SYMBOLS USED IN THE ABOVE CHART:
○: NO CHANGE, △: SOME SWELLING, ×: RED RUSH PRESENT)

FIG. 4

SAMPLE NAMES	MAGNETIC POWDER PARTICLES SIZE (μm)	THE MASS OF EPOXY (MASS %)	BH _{MAX} (kJ/m^3)	SURFACE ROUGHNESS Ra (μm)	OCCURRENCE OF CORROSION *
SAMPLE (a)	10 or less	3.0	73.5	1.0	O
SAMPLE (b)	20 - 45	2.6	85.4	1.2	O
SAMPLE (c)	45 - 105	2.2	87.8	1.7	O
SAMPLE (d)	45 - 180	2.0	88.1	2.1	O
SAMPLE (e)	45 - 300	1.8	88.3	2.6	O
SAMPLE (f)	45 - 500	1.6	88.1	3.9	Δ

* (SYMBOLS USED IN THE ABOVE CHART:
O: NO CHANGE, Δ : SOME SWELLING, X : RED RUSH PRESENT)

FIG. 5

SAMPLE NAMES	SiO ₂ POWDER (μm)	SURFACE ROUGHNESS Ra (μm)	OCCURRENCE OF CORROSION *
SAMPLE (g)	0.05	3.4	Δ
SAMPLE (f)	0.1	2.7	O
SAMPLE (i)	0.5	1.8	O
SAMPLE (j)	2	1.3	O
SAMPLE (k)	10	1.7	O
SAMPLE (l)	15	2.5	O
SAMPLE (m)	20	3.8	X

* (SYMBOLS USED IN THE ABOVE CHART:

O: NO CHANGE, Δ : SOME SWELLING, X : RED RUSH PRESENT)

FIG. 6

SAMPLE NAMES	MOLDING PRESSURE (GPa)	MAGNET DENSITY ($\times 10^3 \text{ kg/m}^3$)	BH _{MAX} (kJ/m^3)	SURFACE ROUGHNESS Ra (μm)	OCCURRENCE OF CORROSION *
SAMPLE (n)	0.6	5.84	103	4.1	X
SAMPLE (o)	0.8	6.04	118	3.3	Δ
SAMPLE (p)	1.0	6.17	132	2.2	O
SAMPLE (q)	1.2	6.28	141	1.6	O
SAMPLE (r)	1.4	6.36	149	1.4	O
SAMPLE (s)	1.6	6.48	154	1.3	O

* (SYMBOLS USED IN THE ABOVE CHART:

O: NO CHANGE, Δ : SOME SWELLING, X: RED RUSH PRESENT)

FIG. 7